

Title (en)

MULTIPLE STATION GAMMA RAY ABSORPTION CONTRABAND DETECTION SYSTEM

Title (de)

SYSTEM ZUR DETEKTION VON SCHMUGGELWARE MIT HILFE VON GAMMA-STRAHLEN-ABSORPTION AN MEHREREN MESSSTATIONEN

Title (fr)

SYSTEME DE DETECTION DE PRODUITS DE CONTREBANDE PAR ABSORPTION DES RAYONS GAMMAS A PLUSIEURS POSTES

Publication

EP 0894263 A4 20020403 (EN)

Application

EP 97907739 A 19970221

Priority

- US 9702696 W 19970221
- US 63295496 A 19960416

Abstract (en)

[origin: WO9739340A1] A multiple station gamma ray absorption contraband detection system utilizes a proton source (200) and disk-shaped target (100) to provide a 360 degree resonant gamma ray cone which is suitable for use in four separate gamma ray absorption contraband detection stations (202, 204, 206, 208) simultaneously. The target has two beryllium walls coated with ¹³C and ³⁴S so as to facilitate the detection of nitrogen and chlorine in a manner which reliably and effectively identifies contraband such as explosives and drugs via gamma ray absorption.

IPC 1-7

G01N 23/04; H05H 6/00; G21K 5/10

IPC 8 full level

B65G 47/80 (2006.01); **G01N 23/04** (2006.01); **G01N 23/06** (2006.01); **G01V 5/12** (2006.01); **G21K 5/02** (2006.01)

CPC (source: EP US)

G01N 23/04 (2013.01 - EP US)

Citation (search report)

- [A] US 5247177 A 19930921 - GOLDBERG MARK [IL], et al
- [A] US 4921327 A 19900501 - ZITO RICHARD R [US]
- [A] US 4852138 A 19890725 - BERGERET MARCEL [FR], et al
- See references of WO 9739340A1

Designated contracting state (EPC)

CH DE DK ES FR GB IT LI SE

DOCDB simple family (publication)

WO 9739340 A1 19971023; AU 1966097 A 19971107; AU 717880 B2 20000406; CA 2251801 A1 19971023; CA 2251801 C 20010123; DE 69738214 D1 20071129; DE 69738214 T2 20080717; DK 0894263 T3 20080211; EP 0894263 A1 19990203; EP 0894263 A4 20020403; EP 0894263 B1 20071017; ES 2297851 T3 20080501; IL 126388 A0 19990509; IL 126388 A 20011223; JP 3159712 B2 20010423; JP H11508055 A 19990713; NO 984804 D0 19981015; NO 984804 L 19981216; US 5784430 A 19980721

DOCDB simple family (application)

US 9702696 W 19970221; AU 1966097 A 19970221; CA 2251801 A 19970221; DE 69738214 T 19970221; DK 97907739 T 19970221; EP 97907739 A 19970221; ES 97907739 T 19970221; IL 12638897 A 19970221; JP 53707297 A 19970221; NO 984804 A 19981015; US 63295496 A 19960416